#14

REPORT OF "TAR" AND NICOTINE CONTENT OF THE SMOKE OF 128 VARIETIES OF CIGARETTES
March 1974

The Federal Trade Commission's Laboratory has determined the "tar" (dry particulate matter) and total alkaloid (reported as nicotine) content of 128 varieties of cigarettes. The laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement of July 31, 1967:

1. Smoke cigarettes to a 23 mm. butt length, or to the length of the filter and overwrap plus 3 mm. if in excess of 23 mm.

2. Base results on a test of 100 cigarettes per brand, or type.

3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection".

4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C. H. Sloan and B. J. Sublett in Tobacco Science 9, page 70, 1965, as modified by F. J. Schultz' and A. W. Spears' report published in Tobacco Vol. 162, No. 24, page 32, dated June 17, 1966, to determine the moisture content.

5. Determine and report the "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter.

Concerning the 128 varieties tested, 26 were capable of being smoked to 23 mm. or to an average range of between 23 and 27.8 mm. The butt lengths of the other 102 varieties tested ranged from 23 mm. to an average of between 37.2 and 40.3. The butt lengths of 62 of the 128 varieties tested exceeded 30 mm.

The samples used were obtained by attempting to purchase two packages of each variety of cigarettes during September 1973 in each of 50 geographic locations throughout the country. All varieties of cigarettes were not available in each of the 50 geographic locations and in these instances, one or more additional packages of cigarettes were purchased in those geographic locations where respective varieties were available. The samples utilized in the tests were representative of the 128 varieties of cigarettes as available throughout the country at the time of purchase.

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In the Table listing the cigarette varieties in alphabetical order the "tar" content is reported to the nearest 1/10 milligram and the nicotine to the nearest 1/100 milligram, each with appropriate statistical values. The average weight is reported in grams per cigarette and the butt length range to the nearest 1/10 millimeter. In all other tables the average weight and butt length columns and the figures representing the standard deviation of the mean have been eliminated; the "tar" figures have been rounded off to whole numbers and nicotine figures to tenths of milligrams. Two tables respectively list varieties in increasing order of "tar" values and in increasing order of nicotine values, the other two lists tabulate the current and four previous tests. Accordingly, "tar" and nicotine figures in these tables and lists represent rounded off averages without indication of their precision.

Source: https://www.industrydocuments.ucsf.edu/docs/jmkk0001

"Tar"[4] and Nicotine[5] Content of One-Hundred Twenty-eight (128) Varieties of Domestic Cigarettes

Brand	Type[1]		Average weight[2]	Butt length[3]	TPM dry[4] *	Nicotine[5] *
Alpine	F, M, SP	85 mm	1.0344	28.7 - 29.7 mm	14.3 ± 0.3	0.95 ± 0.02
Alpine	F, HP	100 mm	0.9466	33.9 - 34.9 mm	15.4 ± 0.4	0.93 ± 0.03
Belair	F, M, SP	85 mm	0.9861	26.8 - 30.6 mm	15.3 ± 0.2	1.08 ± 0.02
Belair	F, M, SP	100 mm	1.1212	31.0 - 36.0 mm	16.8 ± 0.3	1.23 ± 0.02
Benson & Hedges	F, HWP	70 mm	0.8888	23.0 - 27.8 mm	9.4 ± 0.4	0.61 ± 0.03
Benson & Hedges	F, HWP	85 mm	1.0671	32.0 - 35.0 mm	15.4 ± 0.3	1.10 ± 0.02
Benson & Hedges 100's	F, SP	100 mm	1.1489	33.9 - 36.5 mm	17.9 ± 0.4	1.19 ± 0.03
Benson & Hedges 100's	F, M, SP	100 mm	1.1584	34.0 - 35.7 mm	17.9 ± 0.2	1.21 ± 0.02
Bull Durham	F, SP	85 mm	1.1978	25.7 - 28.2 mm	30.5 ± 0.5	2.03 ± 0.03
Camel	NF, SP	70 mm	0.9209	23 mm	23.4 ± 0.6	1.51 ± 0.04
Camel Filters	F, SP	85 mm	1.0137	27.4 - 28.8 mm	19.3 ± 0.3	1.29 ± 0.02
Carlton 70's[6]	F, SP	70 mm	0.8318	32.5 - 34.1 mm	1.1 ± 0.1	0.12 ± 0.01
Carlton	F, SP	85 mm	1.0819	32.0 - 34.7 mm	3.6 ± 0.2	0.33 ± 0.02
Carlton	F, M, SP	85 mm	1.0301	32.2 - 34.2 mm	3.3 ± 0.3	0.32 ± 0.02
Chesterfield	NF, SP	70 mm	0.9120	23 mm	24.7 ± 0.5	1.52 ± 0.03
Chesterfield	NF, SP	85 mm	1.0808	23 mm	29.0 ± 0.5	1.63 ± 0.03
Chesterfield	F, SP	85 mm	0.9851	26.0 - 28.0 mm	18.6 ± 0.4	1.36 ± 0.04
Chesterfield	F, M, SP	85 mm	0.9892	26.0 - 28.0 mm	18.3 ± 0.3	1.26 ± 0.02
Chesterfield	F, SP	101 mm	1.1402	28.0 - 33.5 mm	19.3 ± 0.3	1.44 ± 0.02
Domino	NF, SP	85 mm	1.2810	23 mm	26.0 ± 0.7	1.28 ± 0.07
Domino	F, SP	85 mm	1.1166	23.5 - 27.5 mm	20.8 ± 0.5	1.21 ± 0.03
Doral	F, SP	85 mm	1.1391	32.0 - 33.5 mm	14.2 ± 0.3	1.01 ± 0.02
Doral	F, M, SP	85 mm	1.1502	32.0 - 33.5 mm	14.2 ± 0.4	1.04 ± 0.03
DuMaurier	F, HWP	85 mm	1.0346	27.0 - 28.7 mm	15.7 ± 0.3	1.05 ± 0.02
Edgeworth Export	F, HP	85 mm	1.0852	27.0 - 27.6 mm	21.3 ± 0.2	1.69 ± 0.03
Edgeworth Export	F, SP	100 mm	1.2364	31.4 - 32.7 mm	19.8 ± 0.3	1.43 ± 0.02
English Ovals	NF, HWP	70 mm	0.9681	23 mm	23.1 ± 0.5	1.66 ± 0.03
English Ovals	NF, HWP	85 mm	1.2049	23 mm	28.7 ± 0.4	2.08 ± 0.03
Eve	F, SP	100 mm	1.0894	32.5 - 34.5 mm	18.3 ± 0.3	1.34 ± 0.03
Eve	F, M, SP	100 mm	1.0837	32.5 - 35.5 mm	17.0 ± 0.2	1.20 ± 0.02
Fatima	NF, SP	85 mm	1.0877	23 mm	28.4 ± 0.6	1.82 ± 0.05
Frappe	F, M, SP	85 mm	1.1045	26.5 - 28.0 mm	11.4 ± 1.5	0.51 ± 0.08
Galaxy	F, SP	85 mm	1.1249	29.5 - 32.5 mm	18.1 ± 0.6	1.22 ± 0.05
Half & Half	F, SP	85 mm	1.1646	26.5 - 28.5 mm	25.0 ± 0.3	1.79 ± 0.03
Herbert Tareyton	NF, SP	85 mm	1.1406	23 mm	26.5 ± 0.3	1.80 ± 0.09
Home Run	NF, SP	70 mm	0.8747	23 mm	19.4 ± 0.4	1.58 ± 0.04
Iceberg 10	F, M, SP	85 mm	1.2233	31.1 - 34.0 mm	9.9 ± 0.2	0.63 ± 0.01
Kent	F, HP	80 mm	0.9333	26.0 - 28.5 mm	14.7 ± 0.3	0.92 ± 0.02
Kent	F, SP	85 mm	0.9993	26.3 - 28.6 mm	15.6 ± 0.4	0.98 ± 0.03
Kent	F, SP	100 mm	1.1363	31.4 - 34.1 mm	18.0 ± 0.3	1.18 ± 0.02
Kent	F, M, SP	100 mm	1.1287	32.0 - 33.9 mm	18.2 ± 0.3	1.25 ± 0.03
King Sano	F, SP	85 mm	1.1319	27.7 - 29.0 mm	6.3 ± 0.2	0.27 ± 0.01
King Sano	F, M, SP	85 mm	1.1470	27.0 - 28.8 mm	6.8 ± 0.3	0.28 ± 0.01
Kool	NF, M, SP	70 mm	0.8828	23 mm	20.1 ± 0.5	1.23 ± 0.03
Kool	F, M, SP	85 mm	0.9830	31.6 - 35.6 mm	16.8 ± 0.3	1.28 ± 0.02
Kool Milds	F, M, SP	85 mm	0.9939	28.0 - 30.0 mm	13.5 ± 0.3	0.88 ± 0.03
Kool	F, M, SP	100 mm	1.1139	34.5 - 37.0 mm	17.1 ± 0.3	1.24 ± 0.02
L & M	F, HP	80 mm	0.9258	25.8 - 28.6 mm	17.6 ± 0.2	1.25 ± 0.02
L & M	F, SP	85 mm	0.9618	26.2 - 28.5 mm	16.9 ± 0.5	1.35 ± 0.02
L & M	F, SP	100 mm	1.1339	31.9 - 34.8 mm	19.4 ± 0.3	1.44 ± 0.03
L & M	F, M, SP	100 mm	1.1385	29.0 - 34.0 mm	18.6 ± 0.3	1.32 ± 0.03
Lark	F, SP	85 mm	1.0788	27.0 - 28.9 mm	17.1 ± 0.2	1.20 ± 0.03
Lark	F, SP	100 mm	1.2218	30.7 - 32.0 mm	19.0 ± 0.4	1.34 ± 0.02
Life	F, SP	100 mm	1.1324	36.9 - 39.1 mm	11.5 ± 0.3	0.77 ± 0.03
Lucky Strike	NF, SP	70 mm	0.9214	23 mm	28.0 ± 0.8	1.72 ± 0.04
Lucky Filters	F, SP	100 mm	1.1608	32.0 - 34.5 mm	22.8 ± 0.4	1.68 ± 0.03
Lucky Ten	F, SP	85 mm	1.2227	32.5 - 33.5 mm	9.4 ± 0.2	0.67 ± 0.01
Lucky Ten	F, SP	100 mm	1.2907	36.9 - 38.5 mm	9.9 ± 0.2	0.76 ± 0.02
Napleton	F, SP	85 mm	1.0893	26.8 - 29.1 mm	23.1 ± 0.4	1.31 ± 0.05
Marlboro	F, HP	80 mm	0.9712	26.0 - 29.0 mm	17.1 ± 0.3	1.11 ± 0.03
Marlboro	F, SP	85 mm	1.0299	27.5 - 28.5 mm	17.9 ± 0.4	1.17 ± 0.02
Marlboro	F, M, SP	85 mm	1.0241	27.5 - 29.5 mm	14.3 ± 0.2	0.94 ± 0.01
Marlboro	F, HP	100 mm	1.1236	33.0 - 34.9 mm	17.1 ± 0.3	1.18 ± 0.02
Marlboro	F, SP	100 mm	1.1529	33.5 - 34.5 mm	17.8 ± 0.4	1.20 ± 0.03
Marlboro Lights	F, SP	85 mm	1.1547	32.2 - 33.9 mm	13.4 ± 0.2	0.95 ± 0.02

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; HWP-hard wide pack; mm-millimeter; PB-plastic box
2 average weight reported in grams
3 range used for butt length because of variance of overwrap
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water
5 milligrams total alkaloids reported as nicotine
6 limited availability based on reduced sampling from Washington, D. C. only
* tolerance shown is two (2) standard deviation of the mean

PM3001059288

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"Tar"[4] and Nicotine[5] Content of One-hundred twenty-eight (128) Varieties of Domestic Cigarettes

Brand	Type[1]		Average weight[2]	Butt length[3]	TPM dry[4] *	Nicotine[5] *
Marvels	NF, SP	85 mm	1.2087	23 mm	23.6 ± 0.7	0.90 ± 0.04
Marvels	F, SP	85 mm	1.1100	27.0 - 28.9 mm	5.5 ± 0.3	0.25 ± 0.01
Marvels	F, M, SP	85 mm	1.1038	27.6 - 28.8 mm	4.4 ± 0.2	0.20 ± 0.01
Montclair	F, M, SP	85 mm	1.0173	26.0 - 27.7 mm	18.7 ± 0.3	1.43 ± 0.02
Multifilter	F, PB	85 mm	1.1879	32.0 - 34.0 mm	13.2 ± 0.3	0.95 ± 0.02
Multifilter	F, M, PB	85 mm	1.1794	32.5 - 34.0 mm	12.2 ± 0.3	0.88 ± 0.02
Newport	F, M, HP	80 mm	0.9468	23.0 - 25.5 mm	18.0 ± 0.4	1.22 ± 0.02
Newport	F, M, SP	85 mm	0.9634	26.1 - 28.1 mm	17.4 ± 0.3	1.22 ± 0.03
Newport	F, M, SP	100 mm	1.1324	32.7 - 34.5 mm	20.9 ± 0.4	1.49 ± 0.03
Oasis	F, M, SP	85 mm	1.0105	26.0 - 27.6 mm	19.2 ± 0.3	1.30 ± 0.02
Old Gold Straights	NF, SP	70 mm	0.8925	23 mm	20.4 ± 0.5	1.25 ± 0.03
Old Gold Straights	NF, SP	85 mm	1.0664	23 mm	24.2 ± 0.5	1.53 ± 0.04
Old Gold Filters	F, SP	85 mm	0.9960	25.7 - 29.0 mm	17.4 ± 0.2	1.12 ± 0.02
Old Gold 100's	F, SP	100 mm	1.1653	32.5 - 34.0 mm	21.5 ± 0.4	1.44 ± 0.02
Pall Mall	NF, SP	85 mm	1.0900	23 mm	28.5 ± 0.7	1.82 ± 0.04
Pall Mall Extra Mild	F, HP	80 mm	1.1597	32.5 - 34.0 mm	9.8 ± 0.2	0.66 ± 0.02
Pall Mall Extra Mild	F, SP	85 mm	1.2219	32.0 - 34.3 mm	10.1 ± 0.2	0.71 ± 0.02
Pall Mall	F, SP	100 mm	1.1999	31.7 - 33.5 mm	20.9 ± 0.3	1.51 ± 0.02
Pall Mall	F, M, SP	100 mm	1.1488	31.9 - 33.9 mm	17.1 ± 0.4	1.34 ± 0.02
Parliament	F, HP	80 mm	1.0000	30.5 - 32.0 mm	15.0 ± 0.4	0.93 ± 0.02
Parliament	F, SP	85 mm	1.0672	34.5 - 35.5 mm	15.2 ± 0.3	0.94 ± 0.02
Parliament 100's	F, SP	100 mm	1.3526	37.2 - 40.3 mm	17.7 ± 0.3	1.16 ± 0.03
Parliament[7]	CF, HP	80 mm	1.0544	30.5 - 32.3 mm	15.8 ± 0.3	1.04 ± 0.02
Parliament[7]	CF, SP	85 mm	1.1526	31.9 - 33.9 mm	16.4 ± 0.3	1.03 ± 0.01
Peter Stuyvesant	F, SP	85 mm	1.0443	26.9 - 27.4 mm	19.1 ± 0.3	1.38 ± 0.04
Peter Stuyvesant	F, SP	100 mm	1.2312	31.3 - 32.8 mm	19.8 ± 0.4	1.41 ± 0.04
Philip Morris	NF, SP	70 mm	0.9460	23 mm	21.8 ± 0.5	1.36 ± 0.04
Philip Morris Commander	NF, SP	85 mm	1.1219	23 mm	27.2 ± 0.4	1.67 ± 0.05
Picayune	NF, SP	70 mm	0.8691	23 mm	19.9 ± 0.5	1.62 ± 0.04
Piedmont	NF, SP	70 mm	0.9355	23 mm	25.0 ± 0.4	1.54 ± 0.02
Players	NF, HWP	70 mm	1.1001	23 mm	30.9 ± 0.6	2.20 ± 0.05
Raleigh	NF, SP	85 mm	1.0670	23 mm	24.1 ± 0.5	1.46 ± 0.04
Raleigh	F, SP	85 mm	1.0346	28.0 - 30.0 mm	15.9 ± 0.3	1.10 ± 0.03
Raleigh	F, SP	100 mm	1.1652	33.5 - 36.0 mm	16.8 ± 0.3	1.14 ± 0.02
Raleigh Extra Mild	F, SP	85 mm	1.0065	32.3 - 34.0 mm	13.2 ± 0.3	0.87 ± 0.02
Redford	F, SP	85 mm	0.9862	27.1 - 28.5 mm	17.3 ± 0.4	1.29 ± 0.03
St. Moritz	F, SP	100 mm	1.2580	35.9 - 36.9 mm	18.9 ± 0.5	1.27 ± 0.05
St. Moritz	F, M, SP	100 mm	1.2573	35.9 - 36.5 mm	17.9 ± 0.2	1.15 ± 0.03
Salem	F, M, SP	85 mm	1.0192	26.8 - 29.5 mm	18.4 ± 0.4	1.28 ± 0.02
Salem	F, M, SP	100 mm	1.2033	33.5 - 35.3 mm	19.7 ± 0.3	1.40 ± 0.02
Sano	NF, SP	70 mm	1.0224	23 mm	16.2 ± 0.4	0.54 ± 0.02
Silva Thins	F, SP	100 mm	0.9484	32.1 - 34.2 mm	16.8 ± 0.3	1.23 ± 0.02
Silva Thins	F, M, SP	100 mm	1.0682	31.5 - 34.2 mm	16.3 ± 0.4	1.16 ± 0.02
Spring 100's	F, M, SP	100 mm	1.1530	30.7 - 35.4 mm	19.5 ± 0.3	1.15 ± 0.03
Tareyton	F, SP	85 mm	1.1108	26.0 - 28.2 mm	20.6 ± 0.3	1.40 ± 0.02
Tareyton	F, SP	100 mm	1.2721	31.5 - 34.5 mm	20.5 ± 0.3	1.45 ± 0.02
Tempo	F, SP	85 mm	1.0617	32.0 - 34.0 mm	11.7 ± 0.3	0.88 ± 0.02
True	F, SP	85 mm	1.0150	31.7 - 34.5 mm	11.4 ± 0.3	0.72 ± 0.02
True	F, M, SP	85 mm	1.0117	32.5 - 34.0 mm	11.5 ± 0.3	0.72 ± 0.02
Twist[8]	F, L/M, SP	100 mm	1.1495	31.3 - 35.0 mm	16.9 ± 0.7	1.31 ± 0.04
Vantage	F, SP	85 mm	1.2440	32.3 - 34.0 mm	10.9 ± 0.2	0.78 ± 0.02
Vantage	F, M, SP	85 mm	1.2734	32.0 - 33.5 mm	11.4 ± 0.2	0.89 ± 0.02
Viceroy	F, SP	85 mm	1.0190	27.1 - 30.3 mm	15.6 ± 0.2	1.05 ± 0.02
Viceroy	F, SP	100 mm	1.1489	32.7 - 36.8 mm	16.8 ± 0.2	1.15 ± 0.03
Viceroy Extra Mild	F, SP	85 mm	1.0054	32.4 - 33.4 mm	13.3 ± 0.2	0.85 ± 0.02
Virginia Slims	F, SP	100 mm	0.9885	34.0 - 35.8 mm	16.4 ± 0.3	1.05 ± 0.01
Virginia Slims	F, M, SP	100 mm	0.9963	34.0 - 36.0 mm	16.8 ± 0.2	1.10 ± 0.02
Vogue (black)	F, HWP	85 mm	1.1342	23.0 - 24.2 mm	30.9 ± 0.8	1.32 ± 0.04
Vogue (colors)	F, HWP	85 mm	1.1412	23.0 - 24.3 mm	21.6 ± 0.5	0.87 ± 0.03
Winston	F, HP	80 mm	0.9521	24.0 - 27.0 mm	19.5 ± 0.3	1.33 ± 0.02
Winston	F, SP	85 mm	1.0238	27.0 - 29.5 mm	19.5 ± 0.3	1.33 ± 0.02
Winston	F, SP	100 mm	1.1987	32.3 - 34.5 mm	19.4 ± 0.3	1.29 ± 0.03
Winston	F, M, SP	100 mm	1.2071	32.7 - 34.7 mm	19.7 ± 0.4	1.41 ± 0.02

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; HWP-hard wide pack; mm-millimeter; PB-plastic box
2 average weight reported in grams
3 range used for butt length because of variance of overwrap
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water
5 milligrams total alkaloids reported as nicotine
6 limited availability based on reduced sampling from Washington, D. C. only
7 charcoal filter
8 L/M Lemon/menthol
* tolerance shown is two (2) standard deviation of the mean

PM3001059289

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Varieties of Domestic Cigarettes
(shown in increasing order of tar values)

Brand	Type	Tar (mg/cig)	Nicotine (mg/cig)
Carlton 70's[2]	reg. size, filter	1	0.1
Carlton	king size, filter, menthol	3	0.3
Carlton	king size, filter	4	0.3
Marvels	king size, filter, menthol	4	0.2
Marvels	king size, filter	6	0.2
King Sano	king size, filter	6	0.3
King Sano	king size, filter, menthol	7	0.3
Iceberg 10	king size, filter, menthol	9	0.6
Benson & Hedges	reg. size, filter, (hard pack)	9	0.6
Lucky Ten	king size, filter	9	0.7
Pall Mall Extra Mild	king size, filter, (hard pack)	10	0.7
Lucky Ten	100 mm, filter	10	0.8
Pall Mall Extra Mild	king size, filter	10	0.7
Vantage	king size, filter	11	0.8
Vantage	king size, filter, menthol	11	0.9
Frappe	king size, filter, menthol	11	0.5
True	king size, filter	11	0.7
True	king size, filter, menthol	12	0.7
Life	100 mm, filter	12	0.8
Tempo	king size, filter	12	0.9
Multifilter	king size, filter, menthol, (plastic box)	12	0.9
Multifilter	king size, filter, (plastic box)	13	0.9
Raleigh Extra Mild	king size, filter	13	0.9
Viceroy Extra Mild	king size, filter	13	0.8
Marlboro Lights	king size, filter	13	0.9
Kool Milds	king size, filter, menthol	13	0.9
Doral	king size, filter	14	1.0
Doral	king size, filter, menthol	14	1.0
Marlboro	king size, filter, menthol	14	0.9
Alpine	king size, filter, menthol	14	0.9
Kent	king size, filter, (hard pack)	15	0.9
Parliament	king size, filter, (hard pack)	15	0.9
Parliament	king size, filter	15	0.9
Belair	king size, filter, menthol	15	1.1
Alp	100 mm, filter, menthol, (hard pack)	15	0.9
Benson & Hedges	king size, filter, (hard pack)	15	1.1
Viceroy	king size, filter	16	1.1
Kent	king size, filter	16	1.0
DuMaurier	king size, filter, (hard wide pack)	16	1.1
Parliament	king size, charcoal filter, (hard pack)	16	1.0
Raleigh	king size, filter	16	1.1
Sano	reg. size, non-filter	16	0.5
Silva Thins	100 mm, filter, menthol	16	1.2
Parliament	king size, charcoal filter	16	1.0
Virginia Slims	100 mm, filter	16	1.1
Virginia Slims	100 mm, filter, menthol	17	1.1
Belair	100 mm, filter, menthol	17	1.2
Kool	king size, filter, menthol	17	1.3
Raleigh	100 mm, filter	17	1.1
Viceroy	100 mm, filter	17	1.2
Silva Thins	100 mm, filter	17	1.2
Twist	100 mm, filter, lemon/menthol	17	1.3
Eve	100 mm, filter, menthol	17	1.2
Kool	100 mm, filter, menthol	17	1.2
Pall Mall	100 mm, filter, menthol	17	1.3
Marlboro	100 mm, filter, (hard pack)	17	1.2
Lark	king size, filter	17	1.2
Marlboro	king size, filter, (hard pack)	17	1.1
Redford	king size, filter	17	1.3
Old Gold Filters	king size, filter	17	1.1
Newport	king size, filter, menthol	17	1.2
L & M	king size, filter, (hard pack)	18	1.3
Parliament 100's	100 mm, filter	18	1.2
Marlboro	100 mm, filter	18	1.2

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2 limited availability based on reduced sampling from Washington, D. C. only

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Tar[1] and Nicotine Content of One-hundred twenty-eight (128)
Varieties of Domestic Cigarettes
(shown in increasing order of tar values)

Brand	Type	Tar (mg/cig)	Nicotine (mg/cig)
St. Moritz	100 mm, filter, menthol	18	1.1
Benson & Hedges 100's	100 mm, filter	18	1.2
Marlboro	king size, filter	18	1.2
Benson & Hedges 100's	100 mm, filter, menthol	18	1.2
Kent	100 mm, filter	18	1.2
Newport	king size, filter, menthol, (hard pack)	18	1.2
Galaxy	king size, filter	18	1.2
Kent	100 mm, filter, menthol	18	1.2
Chesterfield	king size, filter, menthol	18	1.3
Eve	100 mm, filter	18	1.3
Salem	king size, filter, menthol	18	1.3
L & M	100 mm, filter, menthol	19	1.3
Chesterfield	king size, filter	19	1.4
Montclair	king size, filter, menthol	19	1.4
L & M	king size, filter	19	1.3
St. Moritz	100 mm, filter	19	1.3
Lark	100 mm, filter	19	1.3
Peter Stuyvesant	king size, filter	19	1.4
Oasis	king size, filter, menthol	19	1.3
Chesterfield	101 mm, filter	19	1.4
Camel	king size, filter	19	1.3
Home Run	reg. size, non-filter	19	1.6
Winston	100 mm, filter	19	1.3
L & M	100 mm, filter	19	1.4
Winston	king size, filter	19	1.3
Spring 100's	100 mm, filter, menthol	20	1.2
Winston	king size, filter, (hard pack)	20	1.3
Winston	100 mm, filter, menthol	20	1.4
Salem	100 mm, filter, menthol	20	1.4
Peter Stuyvesant	100 mm, filter	20	1.4
Edgeworth Export	100 mm, filter	20	1.4
Picayune	reg. size, non-filter	20	1.6
Kool	reg. size, non-filter, menthol	20	1.2
Old Gold Straights	reg. size, non-filter	20	1.3
Tareyton	100 mm, filter	21	1.5
Tareyton	king size, filter	21	1.4
Domino	king size, filter	21	1.2
Pall Mall	100 mm, filter	21	1.5
Newport	100 mm, filter, menthol	21	1.5
Old Gold 100's	100 mm, filter	22	1.4
Vogue (colors)	king size, filter, (hard wide pack)	22	0.9
Philip Morris	reg. size, non-filter	22	1.4
Edgeworth Export	king size, filter, (hard pack)	22	1.7
Lucky Filters	100 mm, filter	23	1.7
Mapleton	king size, filter	23	1.3
English Ovals	reg. size, non-filter, (hard wide pack)	23	1.7
Camel	reg. size, non-filter	23	1.5
Marvels	king size, non-filter	24	0.9
Raleigh	king size, non-filter	24	1.5
Old Gold Straights	king size, non-filter	24	1.5
Chesterfield	reg. size, non-filter	25	1.5
Half & Half	king size, filter	25	1.8
Piedmont	reg. size, non-filter	25	1.5
Domino	king size, non-filter	26	1.3
Philip Morris Commander	king size, non-filter	27	1.7
Lucky Strike	reg. size, non-filter	28	1.7
Fatima	king size, non-filter	28	1.8
Pall Mall	king size, non-filter	28	1.8
English Ovals	king size, non-filter, (hard wide pack)	29	2.1
Chesterfield	king size, non-filter	29	1.8
Herbert Tareyton	king size, non-filter	30	1.8
Bull Durham	king size, filter	30	2.0
Players	reg. size, non-filter, (hard wide pack)	31	2.2
Vogue (black)	king size, filter, (hard wide pack)	31	1.3

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3001059291

Source: https://www.industrydocuments.ucsf.edu/docs/jmkk0001

Tar[1] and Nicotine Content of One-hundred twenty-eight (128)
Varieties of Domestic Cigarettes
(shown in increasing order of nicotine values)

Brand	Type	Tar (mg/cig)	Nicotine (mg/cig)
Newport	king size, filter, menthol	17	1.2
Newport	king size, filter, menthol, (hard pack)	18	1.2
Galaxy	king size, filter	18	1.2
Kool	reg. size, non-filter, menthol	20	1.2
Belair	100 mm, filter, menthol	17	1.2
Silva Thins	100 mm, filter	17	1.2
Kool	100 mm, filter, menthol	17	1.2
Kent	100 mm, filter, menthol	18	1.2
L & M	king size, filter, (hard pack)	18	1.3
Old Gold Straights	reg. size, non-filter	20	1.3
Chesterfield	king size, filter, menthol	18	1.3
St. Moritz	100 mm, filter	19	1.3
Salem	king size, filter, menthol	18	1.3
Domino	king size, non-filter	26	1.3
Kool	king size, filter, menthol	17	1.3
Camel	king size, filter	19	1.3
Winston	100 mm, filter	19	1.3
Redford	king size, filter	17	1.3
Oasis	king size, filter, menthol	19	1.3
Twist	100 mm, filter, lemon/menthol	17	1.3
Mapleton	king size, filter	23	1.3
Vogue (black)	king size, filter, (hard wide pack)	31	1.3
L & M	100 mm, filter, menthol	19	1.3
Winston	king size, filter	19	1.3
Winston	king size, filter, (hard pack)	20	1.3
Lark	100 mm, filter	19	1.3
Eve	100 mm, filter	18	1.3
Pall Mall	100 mm, filter, menthol	17	1.3
L & M	king size, filter	19	1.3
Chesterfield	king size, filter	19	1.4
Philip Morris	reg. size, non-filter	22	1.4
Peter Stuyvesant	king size, filter	19	1.4
Salem	100 mm, filter, menthol	20	1.4
Tareyt	king size, filter	21	1.4
Winston	100 mm, filter, menthol	20	1.4
Peter Stuyvesant	100 mm, filter	20	1.4
Montclair	king size, filter, menthol	19	1.4
Edgeworth Export	100 mm, filter	20	1.4
Old Gold 100's	100 mm, filter	22	1.4
Chesterfield	101 mm, filter	19	1.4
L & M	100 mm, filter	19	1.4
Tareyton	100 mm, filter	21	1.5
Raleigh	king size, non-filter	24	1.5
Newport	100 mm, filter, menthol	21	1.5
Pall Mall	100 mm, filter	21	1.5
Camel	reg. size, non-filter	23	1.5
Chesterfield	reg. size, non-filter	25	1.5
Old Gold Straights	king size, non-filter	24	1.5
Piedmont	reg. size, non-filter	25	1.5
Home Run	reg. size, non-filter	19	1.6
Picayune	reg. size, non-filter	20	1.6
English Ovals	reg. size, non-filter, (hard wide pack)	23	1.7
Philip Morris Commander	king size, non-filter	27	1.7
Lucky Filters	100 mm, filter	23	1.7
Edgeworth Export	king size, filter, (hard pack)	22	1.7
Lucky Strike	reg. size, non-filter	28	1.7
Half & Half	king size, filter	25	1.8
Herbert Tareyton	king size, non-filter	30	1.8
Pall Mall	king size, non-filter	28	1.8
Fatima	king size, non-filter	28	1.8
Chesterfield	king size, non-filter	29	1.8
Bull Durham	king size, filter	30	2.0
English Ovals	king size, non-filter, (hard wide pack)	29	2.1
Players	reg. size, non-filter, (hard wide pack)	31	2.2

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3001059292

Source: https://www.industrydocuments.ucsf.edu/docs/jmkk0001

Listing of "Tar"[1] Values for Five (5) Testing Periods

Brand	Type	Mar. 1972	July 1972	Jan. 1973	Aug. 1973	Mar. 1974
Adam (white)*1	king size, filter	*	18	19	*	*
Adam (brown)*1	king size, filter	*	18	19	19	*
Adam (brown)	100 mm, filter	*	*	*	19	*
Alpine	king size, filter, menthol	18	15	15	15	14
Alpine	100 mm, filter, menthol, (hard pack)	*	*	*	*	15
American Brand	king size, filter, (hard pack)	19	19	*	*	*
American Brand	king size, filter	21	21	*	*	*
Belair	king size, filter, menthol	17	17	16	15	15
Belair	100 mm, filter, menthol	18	18	18	18	17
Benson & Hedges	reg. size, filter, (hard wide pack)	17	12	10	10	9
Benson & Hedges	king size, filter, (hard wide pack)	18	16	17	16	15
Benson & Hedges 100's	100 mm, filter	19	19	18	18	18
Benson & Hedges 100's	100 mm, filter, menthol	20	20	18	18	18
Bull Durham	king size, filter	30	30	29	29	30
Camel	reg. size, non-filter	25	25	25	25	23
Camel Filters	king size, filter	19	20	20	19	19
Camel Talls	100 mm, filter	20	20	*	*	*
Carlton 70's	reg. size, filter	1	1	1	2	1
Carlton	king size, filter	3	3	3	4	4
Carlton	king size, filter, menthol	*	4	3	3	3
Chesterfield	reg. size, non-filter	25	25	25	26	25
Chesterfield	king size, non-filter	29	28	29	28	29
Chesterfield	king size, filter	19	19	18	19	19
Chesterfield	king size, filter, menthol	18	18	18	19	18
Chesterfield	101 mm, filter	19	19	19	19	19
Domino	king size, non-filter	27	26	27	29	26
Domino	king size, filter	21	21	22	21	21
Doral	king size, filter	14	15	15	16	14
Doral	king size, filter, menthol	14	15	15	14	14
DuMaurier	king size, filter, (hard wide pack)	17	16	16	16	16
Edgeworth Export	king size, filter, (hard pack)	18	17	19	19	22
Edgeworth Export	100 mm, filter	19	17	19	19	20
English Ovals	reg. size, non-filter, (hard wide pack)	24	23	23	23	23
English Ovals	king size, non-filter, (hard wide pack)	30	28	30	28	29
Eve	100 mm, filter	17	18	17	18	18
Eve	100 mm, filter, menthol	18	17	17	18	17
Fatima	king size, non-filter	31	29	32	31	28
Frappe	king size, filter, menthol	10	9	9	9	11
Galaxy	king size, filter	20	20	19	18	18
Half & Half	king size, filter	24	24	24	24	25
Herbert Tareyton	king size, non-filter	29	29	29	31	30
Home Run	reg. size, non-filter	19	18	20	21	19
Iceberg 10	king size, filter, menthol	*	*	9	9	9
Kent	reg. size, filter	9	10	9	*	*
Kent	king size, filter, (hard pack)	16	16	16	16	15
Kent	king size, filter	17	17	17	16	16
Kent	king size, filter, menthol	18	18	19	*	*
Kent	100 mm, filter	20	19	19	19	18
Kent	100 mm, filter, menthol	18	19	18	18	18
King Sano	king size, filter	7	7	6	6	6
King Sano	king size, filter, menthol	6	6	7	7	7
Kool	reg. size, non-filter, menthol	21	20	22	21	20
Kool	king size, filter, menthol	18	18	17	16	17
Kool Milds	king size, filter, menthol	*	*	*	13	13
Kool	100 mm, filter, menthol	19	18	17	17	17
L & M	king size, filter, (hard pack)	18	17	17	17	18
L & M	king size, filter	19	19	19	19	19
L & M	100 mm, filter	19	19	19	19	19
L & M	100 mm, filter, menthol	19	18	19	19	19
L.T.C.	king size, filter	10	*	*	*	*
Lark	king size, filter	17	17	17	17	17
Lark	100 mm, filter	18	18	18	18	19
Life	100 mm, filter	10	10	10	10	12
Lucky Strike	reg. size, non-filter	28	27	29	29	28
Lucky Filters	king size, filter	21	21	*	*	*
Lucky Filters	100 mm, filter	22	22	22	22	23
Lucky Ten	king size, filter	*	10	9	9	9
Lucky Ten	100 mm, filter	*	*	*	*	10
Lyme	king size, filter, lime/menthol	*	15	14	*	*
Mapleton	reg. size, non-filter	29	27	*	28	*
Mapleton	king size, filter	23	24	24	24	23
Marlboro	king size, filter, (hard pack)	18	18	18	18	17
Marlboro	king size, filter	19	18	18	18	18
Marlboro	king size, filter, menthol	16	16	15	14	14
Marlboro	100 mm, filter, (hard pack)	19	19	18	18	17
Marlboro	100 mm, filter	20	19	18	18	18
Marlboro Lights	king size, filter	13	13	14	14	13

* Denotes varieties not available during market sampling
*1 Indicates color of cigarette paper
1 FTC dry (tar) - milligrams total particulate matter less nicotine and water

PM3001059293

Source: https://www.industrydocuments.ucsf.edu/docs/jmkk0001

Listing of "Tar"[1] Values for Five (5) Testing Periods

Brand	Type	Mar. 1972	July 1972	Jan. 1973	Aug. 1973	Mar. 1974
Marvels	reg. size, non-filter	*	*	21	*	*
Marvels	reg. size, filter	*	3	3	3	*
Marvels	king size, non-filter	26	24	25	25	24
Marvels	king size, filter	6	5	5	5	6
Marvels	king size, filter, menthol	4	4	5	5	4
Maryland	100 mm, filter, menthol	20	20	*	*	*
Maverick	king size, filter	*	20	20	*	*
Mermaid	100 mm, filter, menthol	*	20	19	19	*
Montclair	king size, filter, menthol	19	18	19	18	19
Multifilter	king size, filter, (plastic box)	14	15	14	14	13
Multifilter	king size, filter, menthol, (plastic box)	12	11	11	12	12
New Leaf	king size, filter, menthol	19	*	*	*	*
Newport	king size, filter, menthol, (hard pack)	18	19	19	19	18
Newport	king size, filter, menthol	19	19	19	18	17
Newport	100 mm, filter, menthol	21	22	21	22	21
Newport[2]	king size, filter, menthol, (hard pack)	*	19	20	*	*
Newport[2]	king size, filter, menthol	*	18	20	*	*
Newport[2]	100 mm, filter, menthol	*	24	23	*	*
Oasis	king size, filter, menthol	18	19	18	19	19
Old Gold Straights	reg. size, non-filter	21	20	21	21	20
Old Gold Straights	king size, non-filter	26	26	26	26	24
Old Gold Filters	king size, filter	20	20	20	19	17
Old Gold 100's	100 mm, filter	25	25	23	22	22
Pall Mall	king size, non-filter	29	27	27	29	28
Pall Mall	king size, filter, (hard pack)	19	18	*	*	*
Pall Mall Extra Mild	king size, filter, (hard pack)	*	*	10	9	10
Pall Mall Extra Mild	king size, filter	*	*	*	10	10
Pall Mall	king size, filter	21	20	20	*	*
Pall Mall	100 mm, filter, (hard pack)	18	18	*	*	*
Pall Mall	100 mm, filter, menthol, (hard pack)	18	18	*	*	*
Pall Mall	100 mm, filter	18	20	20	20	21
Pall Mall	100 mm, filter, menthol	18	18	17	17	17
Parliament	king size, filter, (hard pack)	16	15	15	15	15
Parliament	king size, filter	16	16	15	15	15
Parliament 100's	100 mm, filter	19	19	19	17	18
Parliament	king size, charcoal filter, (hard pack)	17	16	16	16	16
Parliament	king size, charcoal filter	16	15	16	15	16
Peter Stuyvesant	king size, filter	20	20	20	20	19
Peter Stuyvesant	100 mm, filter	20	20	19	19	20
Philip Morris	reg. size, non-filter	24	24	23	23	22
Philip Morris Commander	king size, non-filter	30	29	29	29	27
Picayune	reg. size, non-filter	20	19	19	20	20
Piedmont	reg. size, non-filter	24	23	25	25	23
Pinnacle	king size, filter	*	10	*	*	*
Players	reg. size, non-filter, (hard wide pack)	35	34	34	32	31
Raleigh	king size, non-filter	27	26	25	25	24
Raleigh	king size, filter	17	17	16	16	16
Raleigh	100 mm, filter	19	19	18	18	17
Raleigh Extra Mild	king size, filter	*	*	*	*	13
Redford	king size, filter	*	*	*	*	17
St. Moritz	100 mm, filter	*	22	20	20	19
St. Moritz	100 mm, filter, menthol	*	20	19	20	18
Salem	king size, filter, menthol	19	20	19	19	18
Salem	100 mm, filter, menthol	20	20	21	19	20
Sano	reg. size, non-filter	15	16	19	16	16
Sano	reg. size, filter	3	3	3	4	*
Silva Thins	100 mm, filter	16	16	15	16	17
Silva Thins	100 mm, filter, menthol	16	16	15	16	16
Spring 100's	100 mm, filter, menthol	20	20	20	20	20
Stratford	king size, non-filter	31	27	*	33	*
Stratford	king size, filter	*	18	*	20	*
Tareyton	king size, filter	19	21	19	21	21
Tareyton	100 mm, filter	19	20	20	21	21
Tempo	king size, filter	12	12	11	13	12
True	king size, filter	12	12	12	12	11
True	king size, filter, menthol	12	12	12	11	12
Twist	100 mm, filter, lemon/menthol	*	*	*	*	17
Vantage	king size, filter	12	12	11	10	11
Vantage	king size, filter, menthol	11	12	11	11	11
Viceroy	king size, filter	17	18	17	15	16
Viceroy	100 mm, filter	19	19	18	17	17
Viceroy Extra Mild	king size, filter	*	*	*	*	13
Virginia Slims	100 mm, filter	18	17	17	17	16
Virginia Slims	100 mm, filter, menthol	18	18	17	17	17
Vogue (black)	king size, filter, (hard wide pack)	27	28	29	30	31
Vogue (colors)	king size, filter, (hard wide pack)	21	21	20	22	22
Winston	king size, filter, (hard pack)	20	20	20	20	20
Winston	king size, filter	20	21	20	20	19
Winston	100 mm, filter	20	21	20	20	19
Winston	100 mm, filter, menthol	20	20	20	20	20

* Denotes varieties not available during market sampling

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

2 Test market cigarette with white overwrap

PM3001059294

Source: https://www.industrydocuments.ucsf.edu/docs/jmkk0001

Listing of Nicotine Values for Five (5) Testing Periods

Brand	Type	Mar. 1972	July 1972	Jan. 1973	Aug. 1973	Mar. 1974
Adam (white)	king size, filter	*	1.3	1.3	*	*
Adam (brown)*1	king size, filter	*	*	1.2	1.4	*
Adam (brown)*1	100 mm, filter	*	*	*	1.5	*
Alpine	king size, filter, menthol	1.2	1.1	1.0	1.0	0.9
Alpine	100 mm, filter, (hard pack)	*	*	*	*	0.9
American Brand	king size, filter, (hard pack)	1.3	1.3	*	*	*
American Brand	king size, filter	1.4	1.4	*	*	*
Belair	king size, filter, menthol	1.3	1.4	1.2	1.2	1.1
Belair	100 mm, filter, menthol	1.4	1.4	1.3	1.4	1.2
Benson & Hedges	reg. size, filter, (hard wide pack)	1.2	0.9	0.7	0.7	0.6
Benson & Hedges	king size, filter, (hard wide pack)	1.3	1.2	1.3	1.2	1.1
Benson & Hedges 100's	100 mm, filter	1.4	1.4	1.3	1.3	1.2
Benson & Hedges 100's	100 mm, filter, menthol	1.4	1.4	1.3	1.3	1.2
Bull Durham	king size, filter	2.0	2.0	1.8	2.0	2.0
Camel	reg. size, non-filter	1.5	1.6	1.6	1.6	1.5
Camel	king size, filter	1.3	1.4	1.3	1.3	1.3
Camel Talls	100 mm, filter	1.4	1.4	*	*	*
Carlton 70's	reg. size, filter	0.1	0.2	0.1	0.2	0.1
Carlton	king size, filter	0.3	0.3	0.3	0.4	0.3
Carlton	king size, filter, menthol	*	0.3	0.3	0.3	0.3
Chesterfield	reg. size, non-filter	1.5	1.6	1.5	1.6	1.5
Chesterfield	king size, non-filter	1.8	1.8	1.8	1.8	1.8
Chesterfield	king size, filter	1.3	1.4	1.3	1.4	1.4
Chesterfield	king size, filter, menthol	1.2	1.2	1.2	1.3	1.3
Chesterfield	101 mm, filter	1.4	1.4	1.5	1.5	1.4
Domino	king size, non-filter	1.4	1.4	1.5	1.6	1.3
Domino	king size, filter	1.3	1.2	1.3	1.3	1.2
Doral	king size, filter	1.0	1.1	1.0	1.1	1.0
Doral	king size, filter, menthol	1.1	1.1	1.1	1.1	1.0
DuMaurier	king size, filter, (hard wide pack)	1.2	1.2	1.2	1.2	1.1
Edgeworth Export	king size, filter, (hard pack)	1.3	1.1	1.3	1.4	1.7
Edgeworth Export	100 mm, filter	1.5	1.3	1.4	1.4	1.4
English Ovals	reg. size, non-filter, (hard wide pack)	1.6	1.8	1.8	1.7	1.7
English Ovals	king size, non-filter, (hard wide pack)	2.4	2.4	2.3	2.1	2.1
Eve	100 mm, filter	1.3	1.3	1.3	1.4	1.3
Eve	100 mm, filter, menthol	1.2	1.2	1.2	1.3	1.2
Fatima	king size, non-filter	1.9	1.8	1.9	1.9	1.8
Frappe	king size, filter, menthol	0.4	0.4	0.4	0.3	0.5
Galaxy	king size, filter	1.4	1.5	1.4	1.3	1.2
Half & Half	king size, filter	1.7	1.7	1.7	1.8	1.8
Herbert Tareyton	king size, non-filter	1.9	1.7	1.8	1.8	1.8
[illegible] & Sun	reg. size, non-filter	1.4	1.4	1.5	1.6	1.6
Iceberg 10	king size, filter, menthol	*	*	0.6	0.6	0.6
Kent	reg. size, filter	0.6	0.6	0.6	*	*
Kent	king size, filter, (hard pack)	1.0	1.0	1.0	1.0	0.9
Kent	king size, filter	1.1	1.1	1.1	1.0	1.0
Kent	king size, filter, menthol	1.1	1.1	1.2	*	*
Kent	100 mm, filter	1.3	1.3	1.3	1.2	1.2
Kent	100 mm, filter, menthol	1.2	1.3	1.2	1.3	1.2
King Sano	king size, filter	0.3	0.3	0.3	0.3	0.3
King Sano	king size, filter, menthol	0.3	0.3	0.3	0.3	0.3
Kool	reg. size, non-filter, menthol	1.5	1.5	1.4	1.4	1.2
Kool	king size, filter, menthol	1.4	1.5	1.4	1.3	1.3
Kool Milds	king size, filter, menthol	*	*	*	1.0	0.9
Kool	100 mm, filter, menthol	1.4	1.4	1.3	1.3	1.2
L & M	king size, filter, (hard pack)	1.2	1.2	1.2	1.3	1.3
L & M	king size, filter	1.3	1.4	1.4	1.4	1.3
L & M	100 mm, filter	1.4	1.5	1.5	1.5	1.4
L & M	100 mm, filter, menthol	1.3	1.3	1.3	1.4	1.3
L.T.C.	king size, filter	0.7	*	*	*	*
Lark	king size, filter	1.2	1.2	1.2	1.2	1.2
Lark	100 mm, filter	1.2	1.2	1.3	1.3	1.3
Life	100 mm, filter	0.6	0.6	0.6	0.6	0.8
Lucky Strike	reg. size, non-filter	1.8	1.6	1.6	1.8	1.7
Lucky Filters	king size, filter	1.6	1.5	*	*	*
Lucky Filters	100 mm, filter	1.6	1.6	1.6	1.6	1.7
Lucky Ten	king size, filter	*	0.7	0.7	0.6	0.7
Lucky Ten,	100 mm, filter	*	*	*	*	0.8
Lyge	king size, filter, lime/menthol	*	0.9	1.0	*	*
Mapleton	reg. size, non-filter	1.3	1.2	*	1.2	*
Mapleton	king size, filter	1.3	1.4	1.3	1.3	1.3
Marlboro	king size, filter, (hard pack)	1.3	1.3	1.3	1.2	1.1
Marlboro	king size, filter	1.3	1.3	1.3	1.2	1.2
Marlboro	king size, filter, menthol	1.2	1.1	1.0	1.0	0.9
Marlboro	100 mm, filter, (hard pack)	1.5	1.4	1.4	1.3	1.2
Marlboro	100 mm, filter	1.5	1.5	1.3	1.3	1.2
Marlboro Lights	king size, filter	1.1	1.0	1.1	1.0	0.9

* Denotes varieties not available during market sampling

*1 Indicates color of cigarette paper

PM3001059295

Source: https://www.industrydocuments.ucsf.edu/docs/jmkk0001

Listing of Nicotine Values for Five (5) Testing Periods

Brand	Type	Mar. 1972	July 1972	Jan. 1973	Aug. 1973	Mar. 1974
Marvels	reg. size, non-filter	*	*	0.8	*	*
Marvels	reg. size, filter	*	0.2	0.2	0.2	*
Marvels	king size, non-filter	1.0	0.9	1.0	1.0	0.9
Marvels	king size, filter	0.3	0.3	0.3	0.3	0.2
Marvels	king size, filter, menthol	0.2	0.2	0.2	0.2	0.2
Maryland	100 mm, filter, menthol	1.4	1.4	*	*	*
Maverick	king size, filter	*	1.6	1.6	*	*
Mermaid	100 mm, filter, menthol	*	1.5	1.4	1.4	*
Montclair	king size, filter, menthol	1.4	1.4	1.4	1.3	1.4
Multifilter	king size, filter, (plastic box)	1.1	1.1	1.1	1.0	0.9
Multifilter	king size, filter, menthol, (plastic box)	0.9	0.9	0.9	0.9	0.9
New Leaf	king size, filter, menthol	1.3	*	*	*	*
Newport	king size, filter, menthol, (hard pack)	1.1	1.1	1.2	1.3	1.2
Newport	king size, filter, menthol	1.1	1.2	1.3	1.3	1.2
Newport	100 mm, filter, menthol	1.3	1.3	1.4	1.6	1.5
Newport[1]	king size, filter, menthol, (hard pack)	*	1.4	1.5	*	*
Newport[1]	king size, filter, menthol	*	1.3	1.4	*	*
Newport	100 mm, filter, menthol	*	1.7	1.7	*	*
Oasis	king size, filter, menthol	1.1	1.2	1.2	1.3	1.3
Old Gold Straights	reg. size, non-filter	1.2	1.2	1.2	1.3	1.3
Old Gold Straights	king size, non-filter	1.6	1.5	1.6	1.6	1.5
Old Gold Filters	king size, filter	1.3	1.3	1.3	1.2	1.1
Old Gold 100's	100 mm, filter	1.6	1.6	1.5	1.5	1.4
Pall Mall	king size, non-filter	1.8	1.7	1.8	1.9	1.8
Pall Mall	king size, filter, (hard pack)	1.3	1.3	*	*	*
Pall Mall Extra Mild	king size, filter, (hard pack)	*	*	0.7	0.6	0.7
Pall Mall Extra Mild	king size, filter	*	*	*	0.7	0.7
Pall Mall	king size, filter	1.4	1.4	1.3	*	*
Pall Mall	100 mm, filter, (hard pack)	1.3	1.3	*	*	*
Pall Mall	100 mm, filter, menthol, (hard pack)	1.4	1.4	*	*	*
Pall Mall	100 mm, filter	1.3	1.4	1.4	1.4	1.5
Pall Mall	100 mm, filter, menthol	1.3	1.3	1.3	1.3	1.3
Parliament	king size, filter, (hard pack)	1.1	1.1	1.0	1.0	0.9
Parliament	king size, filter	1.1	1.1	1.0	1.0	0.9
Parliament 100's	100 mm, filter	1.4	1.4	1.3	1.2	1.2
Parliament	king size, charcoal filter, (hard pack)	1.1	1.1	1.1	1.0	1.0
Parliament	king size, charcoal filter	1.1	1.1	1.1	1.0	1.0
Peter Stuyvesant	king size, filter	1.5	1.5	1.5	1.4	1.4
Peter Stuyvesant	100 mm, filter	1.5	1.6	1.5	1.4	1.4
Philip Morris	reg. size, non-filter	1.6	1.5	1.5	1.4	1.4
Philip Morris Commander	king size, non-filter	2.0	2.0	1.9	1.8	1.7
Piccadilly	reg. size, non-filter	1.6	1.5	1.5	1.6	1.6
Piedmont	reg. size, non-filter	1.4	1.5	1.5	1.5	1.5
Pinnacle	king size, filter	*	0.7	*	*	*
Players	reg. size, non-filter, (hard wide pack)	2.4	2.4	2.3	2.2	2.2
Raleigh	king size, non-filter	1.8	1.8	1.7	1.6	1.5
Raleigh	king size, filter	1.3	1.3	1.2	1.2	1.1
Raleigh	100 mm, filter	1.4	1.5	1.3	1.3	1.1
Raleigh Extra Mild	king size, filter	*	*	*	*	0.9
Redford	king size, filter	*	*	*	*	1.3
St. Moritz	100 mm, filter	*	1.6	1.5	1.4	1.3
St. Moritz	100 mm, filter, menthol	*	1.5	1.4	1.3	1.1
Salem	king size, filter, menthol	1.4	1.4	1.3	1.3	1.3
Salem	100 mm, filter, menthol	1.5	1.4	1.5	1.4	1.4
Sano	reg. size, non-filter	0.5	0.6	0.6	0.6	0.5
Satto	reg. size, filter	0.2	0.2	0.2	0.2	*
Silva Thins	100 mm, filter	1.1	1.1	1.1	1.2	1.2
Silva Thins	100 mm, filter, menthol	1.1	1.1	1.1	1.2	1.2
Spring 100's	100 mm, filter, menthol	1.1	1.2	1.2	1.2	1.2
Stratford	king size, non-filter	1.2	1.1	*	1.4	*
Stratford	king size, filter	*	0.8	*	0.9	*
Tareyton	king size, filter	1.3	1.4	1.3	1.4	1.4
Tareyton	100 mm, filter	1.3	1.4	1.4	1.5	1.5
Temp	king size, filter	0.9	0.9	0.9	0.9	0.9
Tem	king size, filter	0.7	0.8	0.7	0.7	0.7
True	king size, filter, menthal	0.7	0.7	0.8	0.7	0.7
Twist	100 mm, filter, lemon/menthol	*	*	*	*	1.3
Vantage	king size, filter	0.9	0.9	0.8	0.8	0.8
Vantage	king size, filter, menthol	0.8	0.9	1.0	0.9	0.9
Viceroy	king size, filter	1.3	1.3	1.2	1.1	1.1
Viceroy	100 mm, filter	1.4	1.5	1.3	1.2	1.2
Viceroy Extra Mild	king size, filter	*	*	*	*	0.8
Virginia Slims	100 mm, filter	1.2	1.2	1.2	1.2	1.1
Virginia Slims	100 mm, filter, menthol	1.3	1.3	1.2	1.2	1.1
Vogue (black)	king size, filter, (hard wide pack)	1.0	1.1	1.2	1.2	1.3
Vogue (colors)	king size, filter, (hard wide pack)	0.8	0.9	0.9	0.9	0.9
Winston	king size, filter, (hard pack)	1.3	1.3	1.3	1.-	1.3
Winston	king size, filter	1.4	1.4	1.4	1.3	1.3
Winston	100 mm, filter	1.4	1.4	1.3	1.3	1.3
Winston	100 mm, filter, menthol	1.4	1.4	1.4	1.-	1.-

* Denotes varieties not available during market sampling
1 Test market cigarette with white overwrap

PM3001059296

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